INDEX OF SUBJECTS

Abdominal radiation 631
Acid phosphatase—liver 103
——spleen 103
Albumin—excretion 307
Allergic encephalomyelitis 419
Aminonucleoside nephrosis 643
Aminopeptidase—activity in neoplasm 17
Amyloidosis 369
Anencephaly—vascular anomaly ... 163
Anomaly—Arnold-Chiari complex .. 345
——pulmonary artery 145
Anomaly, vascular—anencephaly .. 163
Anoxia—cellular lipid 65
Antibody production—spleen 697
Aorta—intimal fibrin 521
Arnold-Chiari complex 345
Artery—calcification 511
——glomoid obstruction 75
——lipid 65
Artery, hepatic—ligation 257
Artery, pulmonary—occlusion 145
Arthritis, rheumatoid 533
Autograft—human skin 317
Bartonella—splenic implant 119
Bile canaliculi 41
Bile duct—ligation 257
Biliary tree 41
Bone—iron 443
——irradiation 1; 455
Brain—anencephaly 163
Calcification—liver 599
——spleen 599
Calcification, coronary 511
Canaliculi, bile 41
Carcinoma—aminopeptidase activity 17
Carcinoma, experimental—liver .. 209
Cardiac necrosis 473
Cartilage—irradiation 1
Cerebral malformation—anencephaly 163
Cirrhosis—glomerulus 393
——iron storage 221
——metastatic carcinoma 739
"Clear cell"—epidermis 333
Coccidioides immitis 613
Complement fixation—nephritis .. 379
Congenital anomaly — Arnold-Chiari complex 345
Congenital glomoid body—lung .. 75
Coronary calcification 511
Diet—experimental tumor 491
Dog—muscle ischemia 721
——pancreas 239
"Dopa"—electron microscopy 333
Duck—amyloidosis 369
——hepatitis virus 711
——muscular dystrophy 27
Dystrophy, muscular 27
Elastic tissue, pulmonary 355
Electron microscopy—epidermis . 333
——excretion of albumin 307
——glomerulus 643
——kidney 195
——meningioma 499
——orthostatic proteinuria 405
——pancreas 239
Emboli, silicone 129
Embolism, pulmonary 95
Emigration, leukocytic 239
Emphysema, pulmonary 355
Encephalitis, allergic 419
Epidermis—"clear cell" 333
Epiphysis—irradiation 1
Epithelial reflux, infra-glomerular 547
Escherichia coli 681
Ethionine—experimental tumor 491
Excretion—macromolecules 307
Factor, humoral—hepatic regeneration 561
Factor, rheumatoid 533
Fibrin—aortic intima 521
Fluorenylacetamide—experimental tumor 491
Fowl—pneumococcal infection 579
Gamma irradiation—bone 455
Germ-free guinea pig 681
Glomerulus—aminonucleoside nephrosis 643
——cirrhosis 393
——epithelial reflux 547
——excretion of macromolecules..... 307
Glomoid body—lung 75
Guinea pig, germ-free..... 681
Healing—cardiac necrosis 473
Heart—emboli 129
—necrosis 473
H.Ep. #3 carcinoma..... 17
Hepatic artery—ligation 257
Hepatic regeneration 561
Hepatitis virus 711
Histochemistry—aminopeptidase activity 17
——fibrin 521
——muscle ischemia 721
——sucrose nephrosis 175
Histoplasmosis—calcification 599
Humoral factor—hepatic regeneration 561
Hypertension—vascular lesion 665
Hypertension, pulmonary ... 75; 145
Immunocytochemistry—schistosomiasis 589
Immunohistochemistry—fibrin ... 521
Implantation—spleen 119

Inclusion—renal nuclei 195
Infection, pneumococcus 579
Inflammation—emigration 239
Intestine, germ-free 681
Intima—fibrin 521
Invasion, neoplastic—aminopeptidase activity 17
Iron—osseous tissue 443
Iron storage—cirrhosis 221
Irradiation—bone 455
Ischemia, muscle 721
Kidney—cirrhosis 393
——glomerulus 307; 393; 547; 643
——lead intoxication 195
——nephrotoxic nephritis 379
——orthostatic proteinuria 291; 405
Lead intoxication 195
Ligation—bile duct 257
——hepatic artery 257
——portal vein 257
Lipid—artery 65
Liver—acid phosphatase 103
——calcification 599
——carcinoma, experimental 209
——carcinoma, metastatic 739
——cirrhosis 393
——duct ligation 257
——hepatic artery ligation 257
——hepatitis 711
——histoplasmosis 599
——portal vein ligation 257
——regeneration 561
Lung—embolism, experimental 95
——emphysema 355
——glomoid body 75
——vascular anomaly 145
Lymphatic tissue 681
Macaca mulatta—experimental coccidioidomycosis 613
Macromolecules—human serum albumin 307
Margination—leukocytic 239
Meningioma 499
Metastatic carcinoma—cirrhosis .. 739
Monkey—experimental coccidioidomycosis 613
Mouse—*S. typhimurium* 103
Muscle ischemia 721
Muscular dystrophy 27
Necrosis—heart 473
Neoplasm—aminopeptidase activity. 17
Nephritis, nephrotoxic 379
Nephropathy, serotonin 547
Nephrosis, aminonucleoside 643
Nephrosis, sucrose 175
Nephrotoxic serum 631
Newborn—vascular anomaly 145
Nucleus—inclusion 195
Occlusion—pulmonary artery 145
Orthostatic proteinuria 291; 405
Osseous tissue—iron 443
Oxygenation—silicone emboli 129
Pancreas—inflammation 239
Parabiosis—hepatic regeneration .. 561
Pekin duck—amyloidosis 369
——muscular dystrophy 27
Pneumococcus—resistance 579
Portal vein—ligation 257
Premalignant change—liver 209
Proteinuria, orthostatic 291; 405
Pulmonary embolism, experimental 95
Pulmonary emphysema 355
Pulmonary hypertension ... 75; 145
Pulmonary vascular anomaly.... 145
Rabbit—nephrotoxic serum 631
Rat—experimental tumor 491
——H.Ep. #3 carcinoma..... 17
——hepatic regeneration 561
——irradiation, bone 455
——irradiation, epiphysis 1
——liver 257
——nephritis 379
——parabiosis 561
——serotonin nephropathy 547
——sucrose nephrosis 175
Radiation, abdominal 631
Reflux, epithelial—infra-glomerular 547
Regeneration—liver 209; 561
Renal tubule—sucrose 175
Resistance—pneumococcus 579
Reticuloendothelial system—*S. typhimurium* 103
Rheumatoid arthritis 533
Salmonella typhimurium 103
Schistosomiasis—immunocytochemistry 589
Serotonin nephropathy 547
Serum sickness—vascular lesions.. 665
Shigella flexneri 681
Silicone embolization 129
Skin, human—autograft 317
——epidermis 333
Spleen—acid phosphatase 103
——antigen injection 697
——calcification 599
——histoplasmosis 599
——implantation 119
Spontaneous amyloidosis—duck.. 369
Storage—iron 221
Sucrose nephrosis 175
Thrombus—serum-induced 95
Tumor, experimental 491
Vascular anomaly—anencephaly .. 163
——lung 145
Vascular lesion—hypertension 665
——serum sickness 665
Vernicomyelia 345
X-irradiation—epiphysis 1

INDEX OF AUTHORS

Abbey, H. See Ruebner, Green, Miyai, Caranasos and Abbey (December) 739

Andrade, Z. A.; Paronetto, F., and Popper, H. Immunocytochemical studies in schistosomiasis. (November) 589

Andres, G. A. See Ericsson and Andres (December) 643

Andrews, E. C., Jr., and McKinnon, G. E. Studies on the resistance of fowl to pneumococcal infection. (November) 579

Arhelger, R. B.; Smith, P. N.; Walker, B. L.; Fant, W. M., and Brunson, J. G. Influence of local abdominal radiation on response of rabbits to nephrotoxic serum. (December) 631

Ashworth, C. T. See Robinson, Ashworth, Glover, Phillippi, Lecocq and Langelier (October) 405

——, and James, J. A. Glomerular excretion of macromolecular substances; electron microscopic study of rat kidney after administration of human serum albumin. (September) 307

Bark, J. See Fisher and Bark (December) 665

Baserga, R.; Lisco, H., and Cater, D. B. The delayed effects of external gamma irradiation on the bones of rats. (October) 455

Batiz Martinez, J. See Steiner and Batiz Martinez (September) 257

Beaver, D. L. The ultrastructure of the kidney in lead intoxication with particular reference to intranuclear inclusions. (August) 195

Benjamin, N. R. See Crosby and Benjamin (July) 119

Benson, W. R. The incidence of tumors after treatment with DL-ethionine and N-2-fluorenylacetamide. (October) 491

Beschel, H. See Waugh and Beschel (November) 547

Blankenhorn, D. H. See Bolick and Blankenhorn (November) 511

Blundell, G. P.; Castleberry, M. W.; Lowe, E. P., and Converse, J. L. The pathology of *Coccidioides immitis* in the *Macaca mulatta*. (November) 613

Böhme, D.; Wachstein, M., and Schneider, H. A. Behavior of acid phosphatase in the reticuloendothelial system of genetically susceptible and resistant mice infected with *S. typhimurium*. (July) 103

Bolick, L. E., and Blankenhorn, D. H. A quantitative study of coronary arterial calcification. (November) 511

Bradlow, B. A.; Dunn, J. A., and Higginson, J. The effect of cirrhosis on iron storage. (August) 221

Braunstein, H. See Jones, Rao and Braunstein (October) 393

Brunson, J. G. See Arhelger, Smith, Walker, Fant and Brunson (December) . . . 631

Caranasos, G. See Ruebner, Green, Miyai, Caranasos and Abbey (December) . . . 739

Carruthers, J. S. See Steiner and Carruthers (July) 41

Castleberry, M. W. See Blundell, Castleberry, Lowe and Converse (November) . . 613

Cater, D. B. See Baserga, Lisco and Cater (October) 455

Chappel, C. I. See Rona, Kahn and Chappel (October) 473

Clark, W. H., Jr.; Watson, M. C., and Watson, B. E. M. Two kinds of "clear" cells in the human epidermis; with a report of a modified DOPA reaction for electron microscopy. (September) 333

Congdon, C. C., and Makinodan, T. Splenic white pulp alteration after antigen injection: relation to time of serum antibody production. (December) 697

Converse, J. L. See Blundell, Castleberry, Lowe and Converse (November) 613

Crosby, W. H., and Benjamin, N. R. Frozen spleen reimplanted and challenged with bartonella. (July) 119

Dammin, G. J. See Henry, Marshall, Friedman, Goldstein and Dammin (September) . 317

——. See Sprinz, Kundel, Dammin, Horowitz, Schneider and Formal (December) . . 681

Dickersin, G. R. See Scully, Shannon and Dickersin (December) 721

Dixon, K. C. Deposition of globular lipid in arterial cells in relation to anoxia. (July) . 65

Dunn, J. A. See Bradlow, Dunn and Higginson (August) 221

Ericsson, J. L. E., and Andres, G. A. Electron microscopic studies on the development of the glomerular lesions in aminonucleoside nephrosis. (December) . . 643

Fant, W. M. See Arhelger, Smith, Walker, Fant and Brunson (December) 631

Fisher, E. R., and Bark, J. Effect of hypertension on vascular and other lesions of serum sickness. (December) 665
Flick, J. A. See Ratcliffe and Flick (December) 711
Follis, R. H., Jr. See Melanotte and Follis (July) 1
Formal, S. B. See Sprinz, Kundel, Dammin, Horowitz, Schneider and Formal (December) 681
Freiman, D. G.; Wessler, S., and Lertzman, M. Experimental pulmonary embolism with serum-induced thrombi aged *in vivo*. (July) 95
Friedman, E. A. See Henry, Marshall, Friedman, Goldstein and Dammin (September) 317
Glover, S. N. See Robinson, Ashworth, Glover, Phillippi, Lecocq and Langelier (October) 405
——. See Robinson, Glover, Phillippi, Lecocq and Langelier (September) 291
Goldstein, D. P. See Henry, Marshall, Friedman, Goldstein and Dammin (September) 317
Green, R. See Ruebner, Green, Miyai, Caranasos and Abbey (December) 739
Grisham, J. W. See Williamson and Grisham (August) 239
Henry, L.; Marshall, D. C.; Friedman, E. A.; Goldstein, D. P., and Dammin, G. J. A histologic study of the human skin autograft. (September) . . . 317
Higginson, J. See Bradlow, Dunn and Higginson (August) 221
Horowitz, R. E. See Sprinz, Kundel, Dammin, Horowitz, Schneider and Formal (December) 681
Jacobs, E. B.; Landing, B. H., and Thomas, W., Jr. Vernicomyelia; its bearing on theories of genesis of the Arnold-Chiari complex. (September) 345
James, J. A. See Ashworth and James (September) 307
Janigan, D. T., and Santamaria, A. A histochemical study of swelling and vacuolation of proximal tubular cells in sucrose nephrosis in the rat. (August) . . . 175
Jones, W. A.; Rao, D. R. G., and Braunstein, H. The renal glomerulus in cirrhosis of the liver. (October) 393
Kahn, D. S. See Rona, Kahn and Chappel (October) 473
Kepes, J. Electron microscopic studies of meningiomas. (October) 499
Kochem, H. G. See Vogt and Kochem (October) 379
Korngold, L. See Mellors, Nowoslawski and Korngold (November) 533
Kundel, D. W. See Sprinz, Kundel, Dammin, Horowitz, Schneider and Formal (December) 681
Landing, B. H. See Jacobs, Landing and Thomas (September) 345
Langelier, P. R. See Robinson, Ashworth, Glover, Phillippi, Lecocq and Langelier (October) 405
——. See Robinson, Glover, Phillippi, Lecocq and Langelier (September) 291
Lecocq, F. R. See Robinson, Ashworth, Glover, Phillippi, Lecocq and Langelier (October) 405
——. See Robinson, Glover, Phillippi, Lecocq and Langelier (September) 291
Lertzman, M. See Freiman, Wessler and Lertzman (July) 95
Levine, S., and Wenk, E. J. Studies on the mechanism of altered susceptibility to experimental allergic encephalomyelitis. (October) 419
Lindberg, D. A. B.; Lucas, F. V.; Sheagren, J., and Malm, J. R. Silicone embolization during clinical and experimental heart surgery employing a bubble oxygenator. (August) 129
Lisco, H. See Baserga, Lisco and Cater (October) 455
Lowe, E. P. See Blundell, Castleberry, Lowe and Converse (November) 613
Lucas, F. V. See Lindberg, Lucas, Sheagren and Malm (August) 129
MacDonald, R. A. Experimental carcinoma of the liver. "Regeneration" of liver cells in premalignant stages. (August) 209
——. See Rogers, Shaka, Pechet and MacDonald (November) 561
Makinodan, T. See Congdon and Makinodan (December) 697
Malm, J. R. See Lindberg, Lucas, Sheagren and Malm (August) 129
Marshall, D. C. See Henry, Marshall, Friedman, Goldstein and Dammin (September) 317
McKinnon, G. E. See Andrews and McKinnon (November) 579
Melanotte, P. L., and Follis, R. H., Jr. Early effects of x-irradiation on cartilage and bone. (July) 1

Mellors, R. C.; Nowoslawski, A., and Korngold, L. Rheumatoid arthritis and the cellular origin of rheumatoid factors. (November) 533
Miyai, K. See Ruebner, Green, Miyai, Caranasos and Abbey (December) 739
Moschcowitz, E.; Rubin, E., and Strauss, L. Hypertension of the pulmonary circulation due to congenital glomoid obstruction of the pulmonary arteries. (July) 75
Mottet, N. K. Histochemical observations on the role of stromal aminopeptidase activity following neoplastic cell (H.Ep. #3) invasion. (July) 17
Nowoslawski, A. See Mellors, Nowoslawski and Korngold (November) 533
Okudaira, M.; Straub, M., and Schwarz, J. The etiology of discrete splenic and hepatic calcifications in an endemic area of histoplasmosis. (November) 599
Paronetto, F. See Andrade, Paronetto and Popper (November) 589
Past, W. L. The histologic demonstration of iron in osseous tissue. (October) . . . 443
Pechet, G. See Rogers, Shaka, Pechet and MacDonald (November) 561
Phillippi, P. J. See Robinson, Ashworth, Glover, Phillippi, Lecocq and Langelier (October) 405
——. See Robinson, Glover, Phillippi, Lecocq and Langelier (September) 291
Popper, H. See Andrade, Paronetto and Popper (November) 589
Rao, D. R. G. See Jones, Rao and Braunstein (October) 393
Ratcliffe, H. L., and Flick, J. A. Apparent transfer of human hepatitis viruses to ducks. (December) 711
Rigdon, R. H. Amyloidosis: spontaneous occurrence in white Pekin ducks. (September) 369
——. Spontaneous muscular dystrophy in the white Pekin duck (July) 27
Robinson, R. R.; Ashworth, C. T.; Glover, S. N.; Phillippi, P. J.; Lecocq, F. R., and Langelier, P. R. Fixed and reproducible orthostatic proteinuria. II. Electron microscopy of renal biopsy specimens from five cases. (October) . . 405
——**; Glover, S. N.; Phillippi, P. J.; Lecocq, F. R., and Langelier, P. R.** Fixed and reproducible orthostatic proteinuria. I. Light microscopic studies of the kidney. (September) 291
Rogers, A. E.; Shaka, J. A.; Pechet, G., and MacDonald, R. A. Regeneration of the liver; absence of a "humoral factor" affecting hepatic regeneration in parabiotic rats (November) 561
Rona, G.; Kahn, D. S., and Chappel, C. I. Study on the healing of cardiac necrosis in the rat. (October) 473
Rubin, E. See Moschcowitz, Rubin and Strauss (July) 75
——**, and Strauss, L.** Occlusive intrapulmonary vascular anomaly in the newborn; a cause of congenital pulmonary hypertension? (August) 145
Ruebner, B. H.; Green, R.; Miyai, K.; Caranasos, G., and Abbey, H. The rarity of intrahepatic metastasis in cirrhosis of the liver; a statistical explanation with some comments on the interpretation of necropsy data. (December) . . . 739
Santamaria, A. See Janigan and Santamaria (August) 175
Schneider, H. See Sprinz, Kundel, Dammin, Horowitz, Schneider and Formal (December) 681
Schneider, H. A. See Böhme, Wachstein and Schneider (July) 103
Schwarz, J. See Okudaira, Straub and Schwarz (November) 599
Scully, R. E.; Shannon, J. M., and Dickersin, G. R. Factors involved in recovery from experimental skeletal muscle ischemia produced in dogs. I. Histologic and histochemical pattern of ischemic muscle. (December) 721
Shaka, J. A. See Rogers, Shaka, Pechet and MacDonald (November) 561
Shannon, J. M. See Scully, Shannon and Dickersin (December) 721
Sheagren, J. See Lindberg, Lucas, Sheagren and Malm (August) 129
Smith, P. N. See Arhelger, Smith, Walker, Fant and Brunson (December) 631
Sprinz, H.; Kundel, D. W.; Dammin, G. J.; Horowitz, R. E.; Schneider, H., and Formal, S. B. The response of the germ-free guinea pig to oral bacterial challenge with *Escherichia coli* and *Shigella flexneri;* with special reference to lymphatic tissue and the intestinal tract. (December) 681
Steiner, J. W., and Carruthers, J. S. Studies on the fine structure of the terminal branches of the biliary tree. II. Observations of pathologically altered bile canaliculi. (July) 41

Steiner, P. E., and Batiz Martinez, J. Effects on the rat liver of bile duct, portal vein and hepatic artery ligations. (September) 257
Straub, M. See Okudaira, Straub and Schwarz (November) 599
Strauss, L. See Moschcowitz, Rubin and Strauss (July) 75
——. See Rubin and Strauss (August) 145
Thomas, W., Jr. See Jacobs, Landing and Thomas (September) 345
Vogel, F. S. The anatomic character of the vascular anomalies associated with anencephaly; with consideration of the role of abnormal angiogenesis in the pathogenesis of the cerebral malformation. (August) 163
Vogt, A., and Kochem, H. G. Immediate and delayed nephrotoxic nephritis in rats. The role of complement fixation. (October) 379
Wachstein, M. See Böhme, Wachstein and Schneider (July) 103
Walker, B. L. See Arhelger, Smith, Walker, Fant and Brunson (December) 631
Watson, B. E. M. See Clark, Watson and Watson (September) 333
Watson, M. C. See Clark, Watson and Watson (September) 333
Waugh, D., and Beschel, H. Infra-glomerular epithelial reflux in the evolution of serotonin nephropathy in rats. (November) 547
Wenk, E. J. See Levine and Wenk (October) 419
Wessler, S. See Freiman, Wessler and Lertzman (July) 95
Williamson, J. R., and Grisham, J. W. Electron microscopy of leukocytic margination and emigration in acute inflammation in dog pancreas. (August) . . . 239
Woolf, N. The distribution of fibrin within the aortic intima; an immunohistochemical study. (November) 521
Wright, R. R. Elastic tissue of normal and emphysematous lungs; a tridimensional histologic study. (September) 355